

Remote Learning Packet

NB: Please keep all work produced this week. Details regarding how to turn in this work will be forthcoming.

April 6-10, 2020

Course: 9 Biology

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Weekly Plan:

Monday, April 6

- p. 326 - 327, up to ISOLATION AND SPECIATION
- Etymologies: species, morphology
- Goethe - *On Morphology*

Tuesday, April 7

- Causes of Speciation - p. 327-329
- Notes and key vocab
- Venn diagram exercise

Wednesday, April 8

- Case study - 15.3, p. 308-310
- Notes and key vocab
- Chart the three: convergent, divergent, and coevolution. Identify given examples of each of the three.

Thursday, April 9

- Species survey

Friday, April 10

- No School!

Statement of Academic Honesty

I affirm that the work completed from the packet is mine and that I completed it independently.

I affirm that, to the best of my knowledge, my child completed this work independently

Student Signature

Parent Signature

Greetings, Biology students. I hope that as the walls of your homes become more and more familiar, you are exploring new, unknown, and beautiful things in your studies. We miss you very much. Monday mornings are just not the same without hearing your stories, and it's too bad we don't get to explore these wonderful, fundamental ideas together in person. "What makes a living thing different from another one?" What a question!

This week: be sure to establish a set study place and do your best to maintain a daily routine. In your study place, there should not be a phone or other device. Eliminate distractions so you can focus. Conversation with other students, even about school, ought to wait until you give your studies a worthy effort on your own. After all, your study is up to you. Shoulder your noble burden proudly, and look ahead to its many benefits!

Monday, April 6

1. Read p. 326-327 in the textbook, up to ISOLATION AND SPECIATION. Write down the name and a brief summary of all the key ideas in each section, in the order they are found in the text. As you come upon them, copy down and define all the bold vocab words.
2. At the end of your notes, copy the following definitions with their etymologies:

species (n.)

late 14c., from Latin *species* "a particular sort, kind, or type" (opposed to *genus*), originally "a sight, look, view, appearance," related to *specere* "to look at, to see, behold,"
1560s as "distinct class (of something) based on common characteristics." Biological sense is from c. 1600.

Morphology (n.)

1824 in biology: "science of the outer form and inner structure of animals and plants," from German *Morphologie* (1817); **morpho-** "shape" + **-logy** "study of." In philology, "science of structure or forms in language." General sense of "shape, form, external structure or arrangement"

3. Read and annotate the two-page section called "The Purpose Set Forth" from the wonderful "On Morphology" by J.W. von Goethe. Enjoy!

Tuesday, April 7

1. Read p. 327-329 in the textbook, starting with ISOLATION AND SPECIATION. Write down the name and a brief summary of all the key ideas in each section, in the order they are found in the text. As you come upon them, copy down and define all the bold vocab words.
2. Make a full-page Venn diagram with a header on top, and plenty of room in each section (an example is attached). Label one circle Reproductive Isolation, and the other Geographic Isolation. Write an example (real or imagined) in each of the three sections of the Venn diagram. The

example on either side should be unique to its type of isolation, and the example in the middle should be one where both types of isolation occur.

Wednesday, April 8

1. Read p. 308-310 in the textbook. As you read, write down the name and a brief summary of all the key ideas in each section, in the order they are found in the text. As you come upon them, copy down and define all the bold vocab words.
2. Make a chart like the one below, and write out examples of each type of evolution cited in today's reading:

Type of Evolution	Example from Text
Convergent Evolution	
Divergent Evolution	
Coevolution	

Thursday, April 9

Species Survey

Take a 15 minute walk (or as long as you have time for) outside, preferably in a grassy, shrubby, or wooded area. Bring something to write with and something to write on.

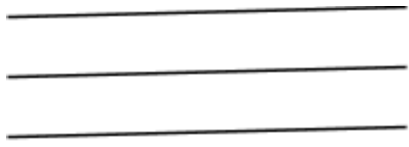
Observe and list as many different species as you can: including birds, dogs, insects, arachnids, plants, moss, lichens, mold, etc.

Describe the form (morphology) of each species.

Defend your distinctions for each species, especially for similar-seeming species. Why is this one different from the other. Even if it seems obvious to your eyes, write it down in a way that is clear for your reader.

Take a note of as many as you can, but if you can only describe and defend 4-6 species, that's quite alright.

If you have the time, keep going. Enjoy it! Go find as many species as you like.



Geographic Isolation

Reproductive Isolation

